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09/746,500	12/22/2000	Yuergen Boehmke	00348	9783

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WITHERS & KEYS FOR BELL SOUTH  
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MARIETTA, GA 30007-1355

EXAMINER
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IQBAL, KHAWAR

ART UNIT	PAPER NUMBER
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2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/05/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

09/746,500

Applicant(s)

BOEHMKE, YUERGEN

Examiner

Khawar Iqbal

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 10-16,27-39 and 41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-16,27-39 and 41 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 10-16, 27-39 and 41 are rejected under 35 U.S.C. 102(e) as being anticipated by Nolting (7027574).

3. Regarding claim 10 Nolting et al teaches a method for communicating all telecommunication call records generated over a period of time associated with a telecommunication system, the call records being transmitted from a remote telecommunication device, comprising (figs. 1-7):

receiving all telecommunication call records from a plurality of remote telecommunication devices at a plurality of switches in communication with a switch master directly through a first communication link (col. 5, lines 1-20, col. 12, line 22-60, fig. 1),

transmitting all dial digits from the plurality of switches to the switch master (col. 5, lines 1-20, col. 12, line 22-60, fig. 1), wherein the switch master is in communication with a computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

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transmitting all telecommunication call records from the switch master to a the computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

storing all telecommunication call records in a database in communication with the computing system (col. 5, lines 1-20, col. 12, line 22-60, figs. 1.7);

storing at least one of the telecommunication call records in a table within the database, wherein the table relates to how recently the telecommunication call records were transmitted from the remote telecommunication device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1); and

searching the database for one or more telecommunication records associated with a telecommunication system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 11 Nolting et al teaches wherein receiving the one or more call records comprises receiving the one or more call records from a telecommunication switch (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 12 Nolting et al teaches wherein transmitting comprises transmitting the one or more call records from the telecommunication switch to the computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 13 Nolting et al teaches real time communication (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 14 Nolting et al teaches wherein receiving the one or more call records includes receiving the one or more call records from a wireless device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

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Regarding claim 15 Nolting et al teaches further comprising analyzing the one or more call records received from the telecommunication switch (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 16 Nolting et al teaches wherein analyzing the one or more call records comprises parsing the one or more call records (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 27 Nolting et al teaches a computer implemented method for managing all call records received over a period of time associated with a telecommunication system in real time relative to the termination of the telecommunications transactions, the call records being transmitted from a remote telecommunication device, comprising (figs. 1-7):

receiving all digits received over a period of time from a plurality of remote telecommunication devices at a plurality of corresponding switches in communication with a switch master directly through a first communication link substantially instantaneously after termination of at least one telecommunications transactions (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

transmitting all the dial digits received over a period of time from the plurality of switches to the switch master in real time relative to the termination of the telecommunications transactions, wherein the switch master is in communication with at least a billing system directly through a second communication link and a computer system directly through a third communication link (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

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receiving all the telephone call records from the switch master in real time relative to the termination of the telecommunications transactions into the computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

inputting into the computing system an identifier and generating a report based on the identifier in real time relative to the termination of a telecommunications transaction (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 28 Nolting et al teaches receiving the one or more telecommunication call records at a telecommunication switch, routing the one or more telecommunication call records to one or more computers in communication with the computing system; and storing the one or more telecommunication call records in a storage device in communication with the computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 29 Nolting et al teaches downloading one or more sets of computer instructions to the computing system from a server in communication therewith (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 30 Nolting et al teaches wherein receiving the telecommunication call records further comprises receiving telecommunication call records including records selected from the group consisting of an originating telephone number, a telephone number dialed by a subscriber, a voice channel seizure time, a voice channel seizure date, a duration time of a telephone call and a cell location of a telephone call (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claims 31 Nolting et al teaches wherein generating a report further comprises generating a report based on an identifier selected from the group consisting of a telecommunication device number, a telecommunication device identification number and one or more digits dialed by the telecommunication device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 32 Nolting et al teaches a computer readable medium having a set of computer instructions encoded thereon, comprising (figs. 1-7):

the set of computer instructions being operative with a computer adapted for communicating with a telecommunication system in real time and adapted for communicating with a storage device, the set of computer instructions cause the computer to (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

receive all telecommunication call records generated over a period of time from a plurality of telecommunication switches by a switch master in communication with the telecommunication switch directly through a first communication link substantially instantaneously after termination of at least one telecommunications transaction (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

receive all the telecommunication call records from the switch master by the computer in communication therewith in real time relative to the termination of the telecommunications transactions (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

store all the telecommunication call records in a storage device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

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generate one or more reports based on predetermined criteria in real time relative to the termination of the telecommunications transactions (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

store at least one of the telecommunication call records in a table within the storage device, wherein the table relates to how recently the telecommunication call record was received (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 33 Nolting et al teaches a system for managing all telephone call records in, comprising (figs. 1-7):

a plurality of telecommunication switches (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

a switch master in communication with at least a billing system, a computer system and the plurality of telecommunication switches in real time and that receives all of the plurality of telecommunications call records from the plurality of telecommunication switches, the switch master maintaining a script in memory to cause incoming call records to be forwarded by the switch master and the switch master providing a log in for remotely accessing the switch master from the computer, wherein the switch master receives a user command to execute the script (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

a computing system including one or more computers having one or more processors in communication with the switch master upon execution of the script, the computing system including (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);



one or more storage devices in communication therewith (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

a memory coupled to the one or more processors, one or more storage devices in communication thereto (col. 5, lines 1-20, col. 12, line 22-60, fig. 1); and

one or more sets of computer instructions configured to be executed by the computing system, the one or more sets of computer instructions being operative with the computing system to perform acts selected from the group consisting of setting one or more storage tables to a known state, checking the status of the one or more sets of executing computer instructions, providing a summary of the telecommunication call records, providing an output report based on a telecommunication device number (col. 5, lines 1-20, col. 12, line 22-60, fig. 1), providing an output report based on a telecommunication device identification number, and providing an output report based on a number of digits dialed by the telecommunication device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 34 Nolting et al teaches further comprising a server coupled to the computing system (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 35 Nolting et al teaches wherein the computing system provides the telecommunication call records to the server (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 36 Nolting et al teaches wherein the computing system further comprises a plurality of computers interconnected in a network (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

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Regarding claim 37 Nolting et al teaches A system for managing all telephone telecommunication call records in real time, comprising (figs. 1-7):

a plurality of telecommunication switching means for receiving all call records received from a telecommunication device substantially instantaneously after termination of at least one telecommunications transaction (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

a switch master control means operating in real time relative to the termination of the telecommunications transactions in communication with the plurality of telecommunication switching means in order receive all of the call records received by the plurality of telecommunication switching means (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

computing system means operating in real time relative to the termination of the telecommunications transactions and in communication with the switch master control means in order to receive all of the call records received by the plurality of telecommunication switching means, the switch master control means maintaining a script in memory to cause incoming call records to be forwarded by the switch master and the switch master control means providing a log in for remotely accessing the switch master control means from the computing system means, wherein the switch master control means receives a user command to execute the script (col. 5, lines 1-20, col. 12, line 22-60, fig. 1);

storage means operating in real time relative to the termination of the telecommunications transactions in communication with the computing means for storing all telecommunication call records received by the computer system therein,

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wherein the storage means are for storing at least one of the one or more telephone call records in a table within the database, wherein the table relates to how recently the telephone call records were received (col. 5, lines 1-20, col. 12, line 22-60, fig. 1); and

searching means for searching the storage means for one or more telephone call records in real time relative to the termination of a telecommunication transaction (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 38 Nolting et al teaches further comprising computer server means in communication with the computing system means (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 39 Nolting et al teaches further comprising switch master means in communication with the telecommunication switching means and the computing system means (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

Regarding claim 41 Nolting et al teaches a computer readable medium having a set of computer instructions encoded thereon, comprising:

a set of computer instructions being operative with a computer adapted for communicating in real time relative to the termination of the telecommunications transactions with a telecommunication network and adapted for communicating in real time with a storage device, the set of computer instructions cause the computer to (col. 5, lines 1-20, col. 12, line 22-60, fig. 1): establish a communication link operating in real time relative to the termination of the telecommunications transactions between the computing system and the telecommunication system; receive all the telecommunication call records generated over a period of time from a switch master

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wherein the switch master is in communication with a plurality of switches, and wherein the switch master receives all of the telephone call records generated from the plurality of switches; store all of the telephone call records in the storage device (col. 5, lines 1-20, col. 12, line 22-60, fig. 1); store at least one of the telecommunication call records in a table within the storage device, wherein the table relates to how recently the telecommunication call records were received (col. 5, lines 1-20, col. 12, line 22-60, fig. 1); and search the storage device for one or more telecommunication call records in real time relative to the termination of the telecommunications transactions (col. 5, lines 1-20, col. 12, line 22-60, fig. 1).

### ***Response to Arguments***

4. Applicant's arguments filed 01-10-07 have been fully considered but they are not persuasive.

Regarding claims 10,27,32, and 41, the applicant argues on page 9, "Nolting discloses that site processors assemble information related to inter-switch calls but do not handle intra-switch calls, col.12, lines 22-25". However, this argument is **not** relevant because, Examiner does not rely upon Nolting for the teaching of handling intra-switch calls.

Applicants further argues on page 9 that "There is nothing disclosed in Nolting regarding a switch master that receives all call records via a direct communication link to the switch(es) handling the calls". Examiner respectfully disagrees with this argument. Nolting teaches SS7 CDR server [i.e., switch master] (item 220, Fig.7) that receives all call records via a direct communication link to the SS7 network switches such as

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switches 110, 112 and 116, fig.1 [i.e., switch(es)] handling the calls (see col.12, lines 16-19).

Applicants further argues regarding the added limitations on pages 10-11 that "There is no disclosure of a switch master in Nolting, particularly one that maintains a script in memory where the script causes incoming call records to be forwarded and that provides a log in for remote access to the switch master. There is also no disclosure in Nolting regarding receiving a user command to execute the script that causes the incoming call records to be forwarded". Examiner respectfully disagrees with this argument. Nolting teaches a program can be run on SS7 CDR server [i.e., switch master] (item 220, Fig.7) and the OLAP server 230 (Fig.7) (see col.13, lines 10-13). This program allows multiple user work stations (items 232, 234, 236, Fig.7) to access the stored data in SS7 CDR server 220 via the OLAP server 230 (see col.13, lines 14-22). Therefore, it is clear that Nolting teaches the switch master maintaining a script in memory\_ to cause incoming call records to be forwarded by the switch master and the switch master providing a log in for remotely accessing the switch master from the computer, wherein the switch master receives a user command to execute the script.

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khawar Iqbal whose telephone number is 571-272-7909.

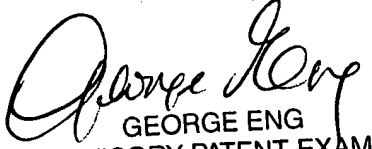
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

*Khawar Iqbal*

  
GEORGE ENG  
SUPERVISORY PATENT EXAMINER